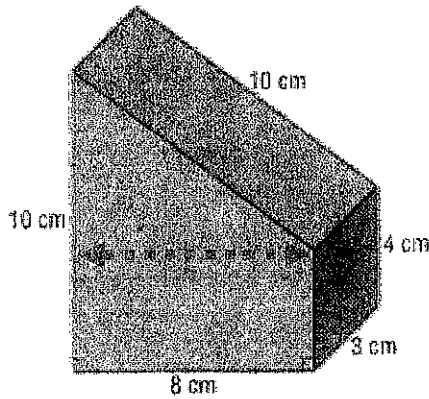


Surface Area of Other Composite Objects

Example 1

Determining the Surface Area of a Composite Object Made from Two Prisms

Determine the surface area of this object.



Triangular Prism

Triangles

$$A = \frac{bh}{2} \times 2$$

$$= 8(6)$$

$$= 48 \text{ cm}^2$$

Rectangle Right

$$A = bh$$

$$= 3(10)$$

$$= 30 \text{ cm}^2$$

Rectangle Left

$$A = bh$$

$$= 6(3)$$

$$= 18 \text{ cm}^2$$

Rectangular Prism

Front/Back

$$A = bh \times 2$$

$$= 8(4) \times 2$$

$$= 64 \text{ cm}^2$$

Right/Left

$$A = bh \times 2$$

$$= 4(3) \times 2$$

$$= 12 \times 2$$

$$= 24 \text{ cm}^2$$

Bottom

$$A = bh$$

$$= 8(3)$$

$$= 24 \text{ cm}^2$$

Total SA:

$$\begin{array}{r}
 48 \\
 30 \\
 18 \\
 64 \\
 24 \\
 24 \\
 \hline
 208 \text{ cm}^2
 \end{array}$$